

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE


First Named Inventor : Pramod B. Mahajan  
Application Number :  
Filing Date : August 26, 2003  
Title : Mre11 Orthologue and Uses Thereof  
  
Group/Art Unit :  
Examiner :  
  
Attorney Docket Number : 1264D

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**FILING OF AN INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97(b)**

The attached list of citations on PTO Form 1449 is being submitted under the provisions of 37 CFR §1.56 and §1.97(b) in order to comply with the duty of disclosure. Their inclusion herein should not, however, be construed as an admission that any particular cited reference is effective prior art or that it discloses or renders obvious any aspect of the claimed invention. A copy of each cited reference is enclosed, except for those references which are already part of the filewrapper. This statement is being filed within the time period specified in 37 CFR §1.97(b). No fee is required.

Respectfully submitted,

  
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				Application Number	
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				Examiner Name	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† <sup>6</sup>
		Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (if known)				
	A2	WO 00/42205 A2	07/20/2000	Novartis-Erfindungen	Whole Document	
	A3	WO 00/12716 A2	03/09/2000	Pioneer Hi-Bred	Whole Document	
	A4	WO 99/41394 A1	08/19/1999	Pioneer Hi-Bred	Whole Document	
	A5	WO 97/08331 A1	03/06/1997	Max-Planck-Gesellschaft	Whole Document	
	A6	WO 00/15816 A3	03/23/2000	Pioneer Hi-Bred	Whole Document	
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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	A8	CHAMANKHAH et al., Isolation of hMRE11B: failure to complement yeast mre11 defects due to species-specific protein interactions, Gene 225:107-116 (1998)	
	A9	TAVASSOLI et al., Cloning and characterisation of the Schizosaccharomyces pombe rad32 gene: a gen required for repair of double strand breaks and recombination, Nucleic Acids Res. 23(3):383-388 (1995)	
	A10	USUI et al., Complex Formation and Functional Versatility of Mre11 Budding Yeast in Recombination, Cell 95:705-716 (1998)	
	A11	LEE et al., Saccharomyces Ku70, Mre11/Rad50 and RPA Proteins Regulate Adaptation to G2/M Arrest after DNA Damage, Cell 94:399-409 (1998)	
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	A17	JOHZUKA et al., Interaction of Mre11 and Rad50: Two Proteins Required for DNA Repair and Meiosis-Specific Double-Strand Break Formation in Saccharomyces cerevisiae, Genetics 139:1521-1532 (1995)	
	A18	PETRINI et al., Isolation and Characterization of the Human MRE11 Homologue, Genomics 29:80-86 (1995)	

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	A19	FURUSE et al., District roles of two seperable in vitro activities of yease Mre11 in mitotic and meiotic recombination, EMBO Journal 17(21):6412-6425 (1998)	
	A20	XIAO et al., Conditional gene targeted deletion by Cre recombinase demonstrates the requirement for the double-strand break repair Mre11 protein in murine embryonic stem cells, Nucleic Acids Res. 25(15):2985-2991 (1997)	
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	A25	MOORE et al., Cell Cycle and Genetic Requirements of Two Pathways of Nonhomologous End-Joining Repair of Double-Strand Breaks in Saccharomyces cerevisiae, Mol. Cell Biol. 16(5):2164-2173 (1996)	
	A26	NAIRZ et al., mre11S-yeast mutation that blocks double-stand-break processing and permits nonhomologous synapsis in meiosis, Genes & Development 11:2272-2290 (1997)	
	A27	TSUBOUCHI et al., A Novel mre11 Mutation Impairs Processing of Double-Strand Breaks of DNA during Both Mitosis and Meiosis, Mol. Cell. Biol. 18(1):260-268 (1998)	
	A28	HARTUNG et al., Accession No. Q9XGM2, Arabidopsis thaliana (Mouse-ear cress), (1999)	
	A29	HARTUNG et al., Accession No. AJ243822, Arabidopsis thaliana mRNA for Mre11 protein (MRE11 gene), (1999)	

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	A30	GERECKE et al., Accession No. AF178433, Coprinus cinereus DNA repair and meiosis protein Mre11 (mre11) gene, complete cds (1999)	
	A31	BIBIKOVA et al., Accession No. AF134569, Xenopus laevis putative nuclease Mre11 (MRE11) mRNA, complete cds (1999)	
	A32	BRODSKY et al., Accession No. AF132144, Drosophila melanogaster clone LD8638 endo/exonuclease Mre11 (mre11) mRNA, complete cds (1999)	
	A33	HARTUNG et al., Isolation of the Complete cDNA of the Mre11 Homologue of Arabidopsis (Accession No. AJ243822) Indicated Conservation of DNA Recombination Mechanisms Between Plants and Other Eucaryotes, Plant Gene Register PGR99-132 Plant Physiol. 121:132 (1999)	
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	A35	JAESUNG et al., Accession No. PREV199800510932, Agrobacterium tumefaciens transformation of the thaliana mutants uvh1 and rad5 (1998)	
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	A38	LEWIN, B., Most eukaryotic mRNAs are polyadenylated at the 3' end, Genes V 10:264-165 (1994), Oxford University Press, New York	
	A39	DOERKS, T., Protein annotation: detective work for function prediction, TIG 14(6):248-250 (1998)	
	A40	SMITH et al., The challenges of genome sequence annotation or "The devil is in the details", Nature Biotechnology 15:1222-1223 (1997)	

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	A41	BRENNER, S.E., Errors in genome annotation, TIG 15(4):132-133 (1999)	
	A42	BORK et al., Go hunting in sequence databases but watch out for the traps, TIG 12(10):425-427 (1996)	
	A43	VAN DE LOO et al., An oleate 12-hydroxylase from Ricinus communis L. is a fatty acyl desaturase homolog, Proc. Natl. Acad. Sci. USA 92:6743-6747 (1995)	

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